

Part 2 - Monthly Analysis
Linear Correlation
Does slope/scalar vary?
Vicarious Calibration?

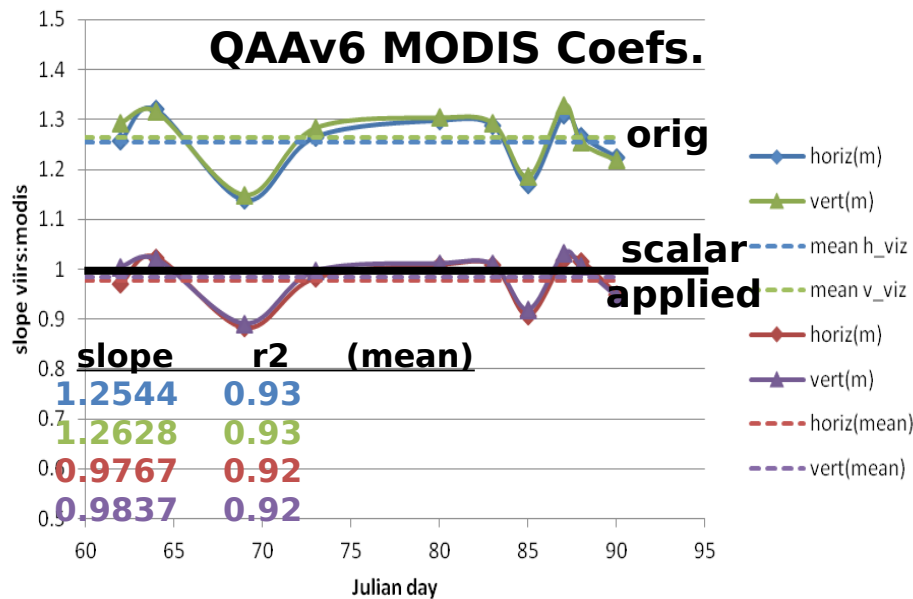
MODIS vs. VIIRS Diver Visibilities
(Horizontal, Vertical)

QAAv6 w/ MODIS Coefs & LMI

Persian Gulf December 2012
Korean Peninsula March 2013

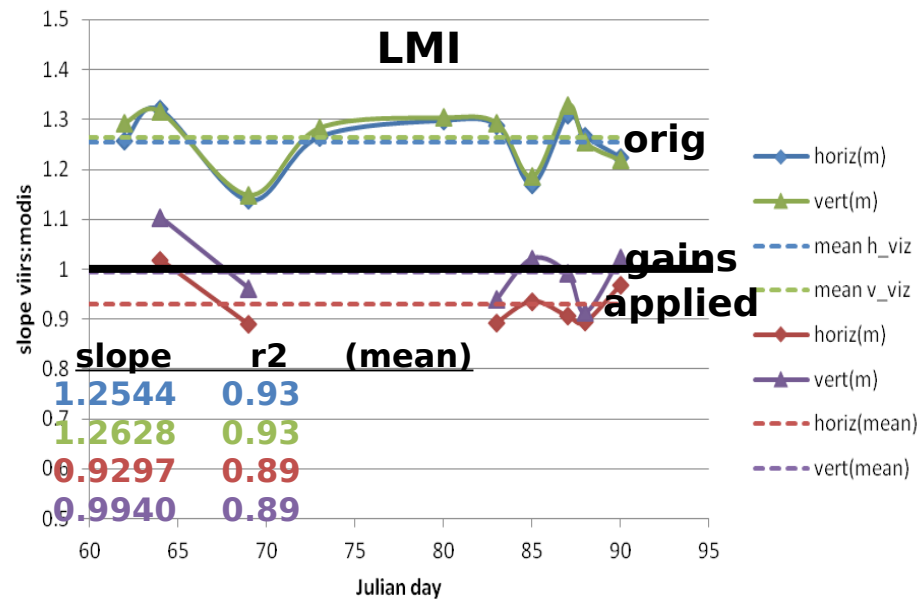
Korea March 2013 visibility statistics

QAAv6 MODIS Coefs.

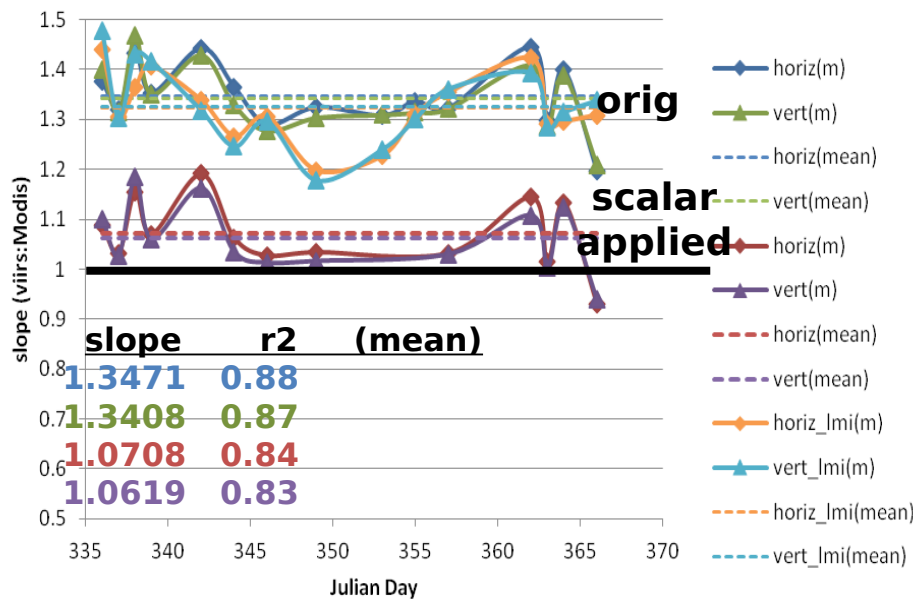


Korea March 2013 visibility statistics

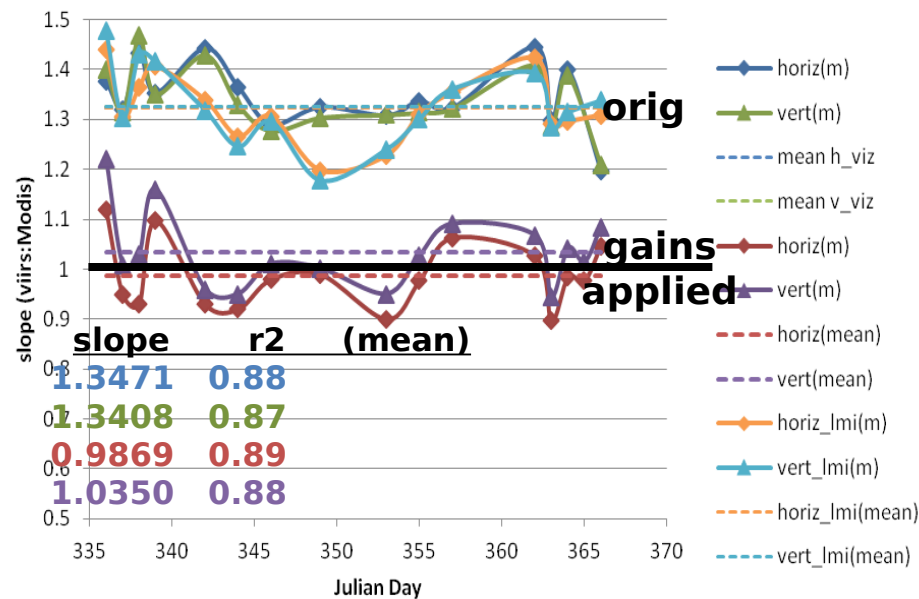
LMI

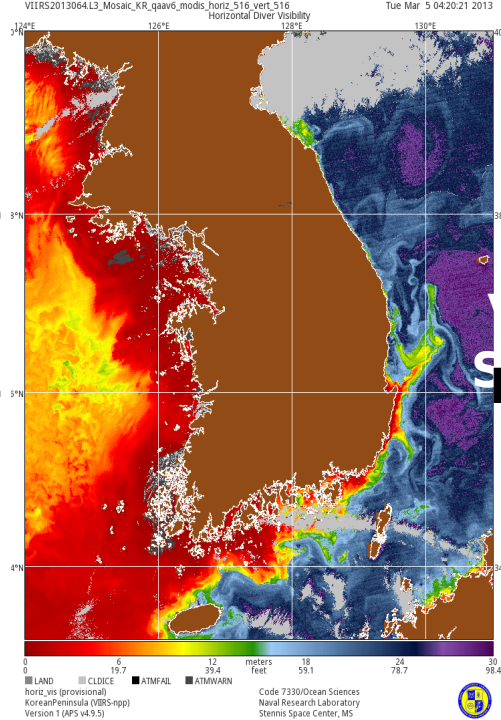
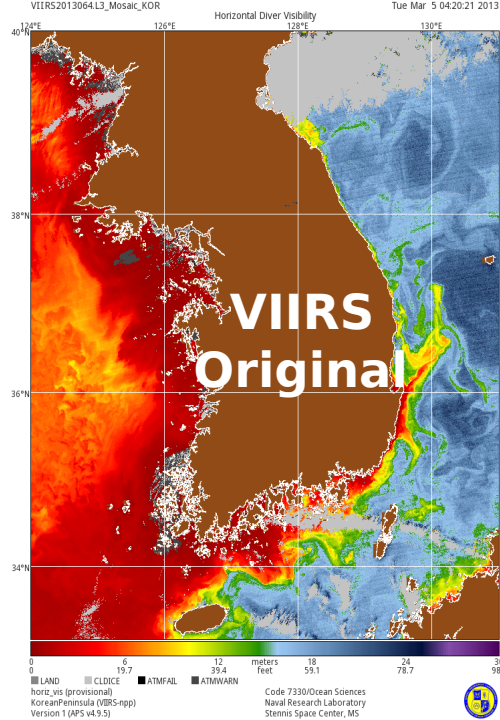
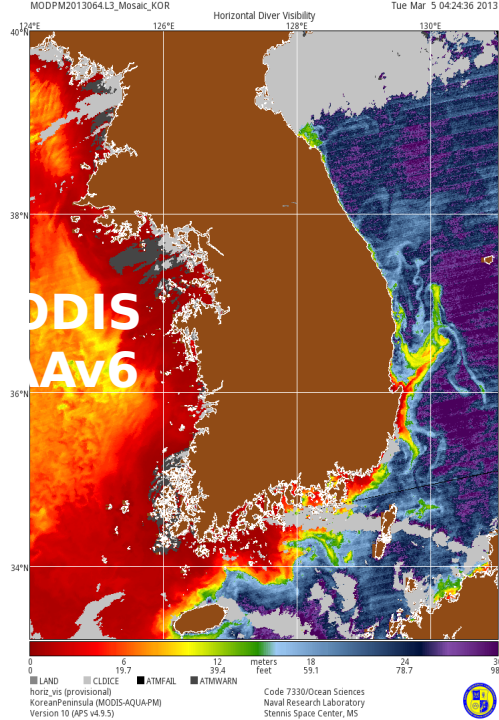


Arabian Gulf December 2012 visibility statistics



Arabian Gulf December 2012 visibility statistics



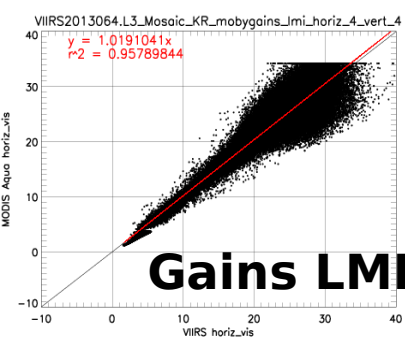
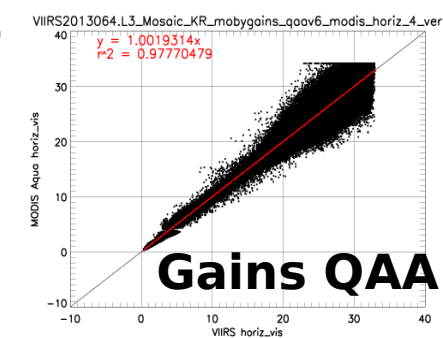
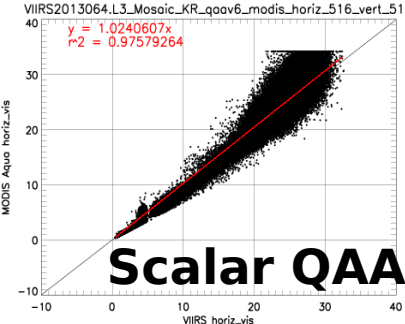
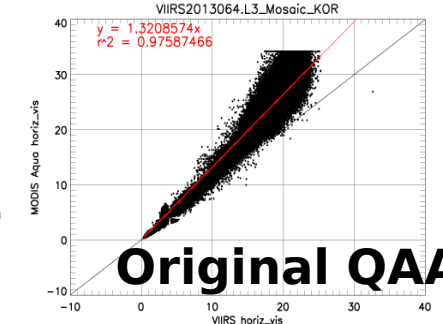
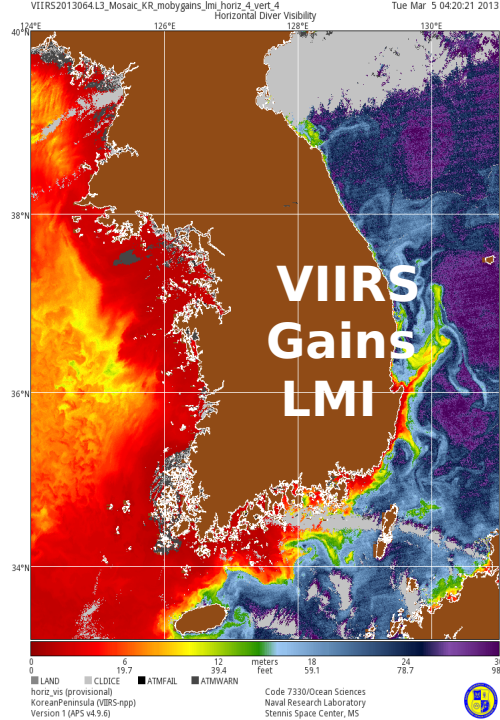
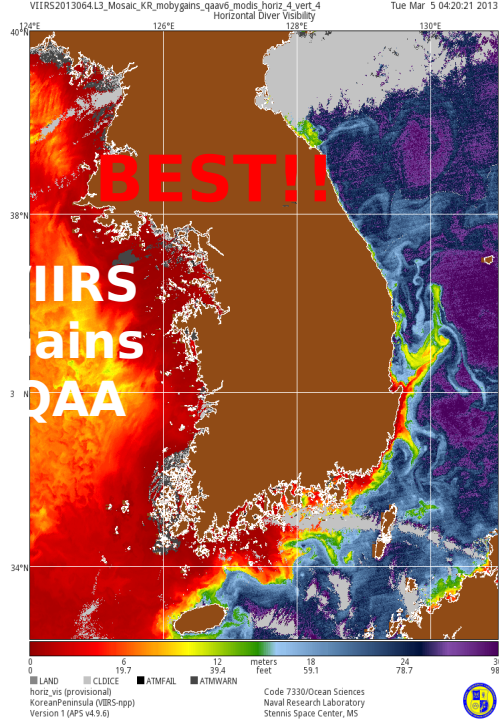


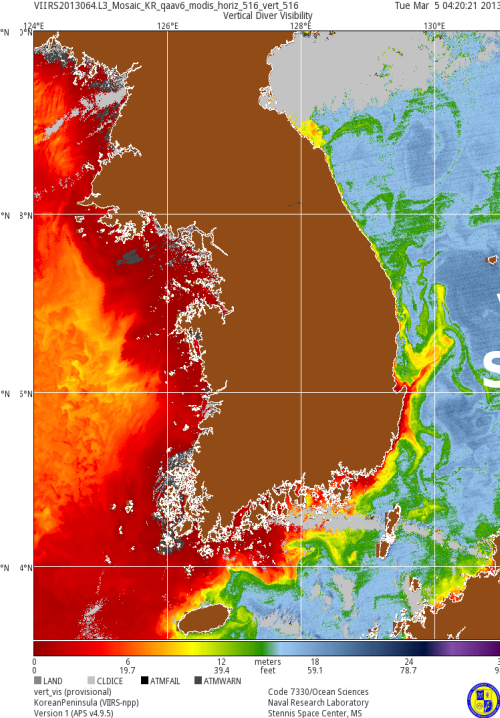
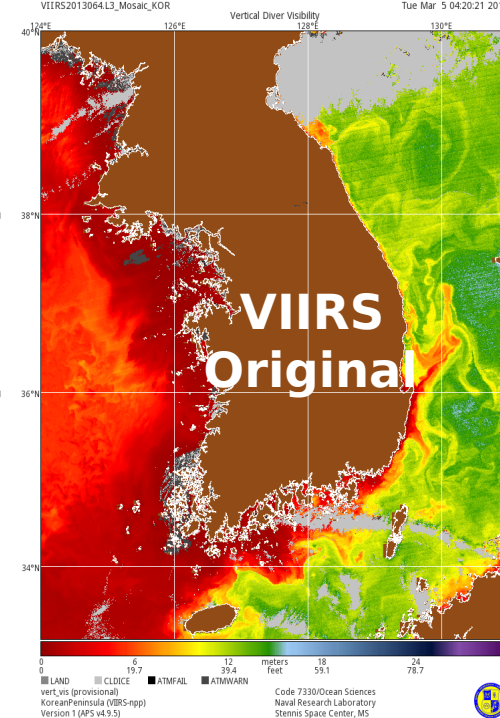
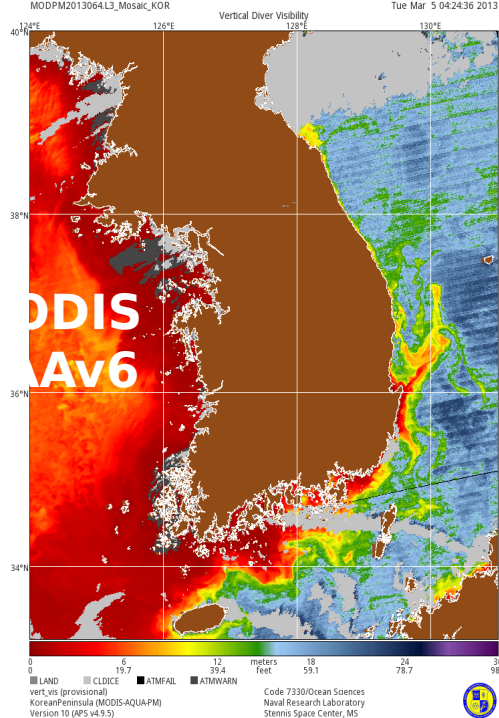
Korean Peninsula

Horizontal Visibility

**March 5, 2013
JDAY 064**

**AOPS v4.8
Evaluation**



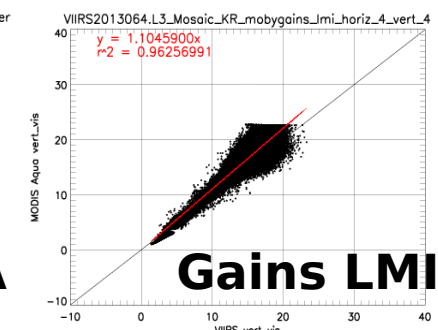
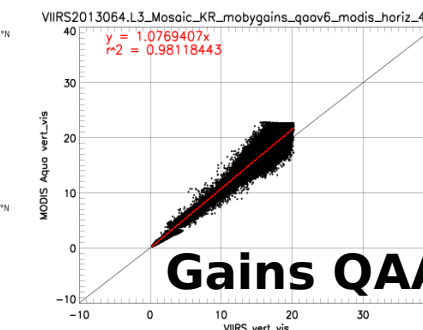
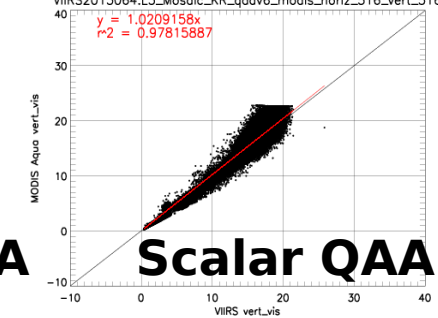
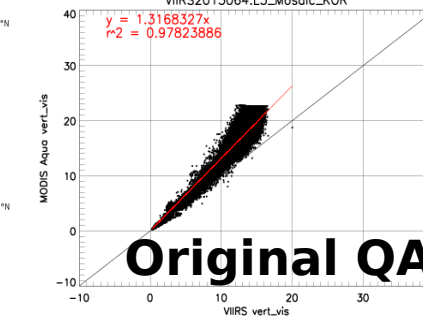
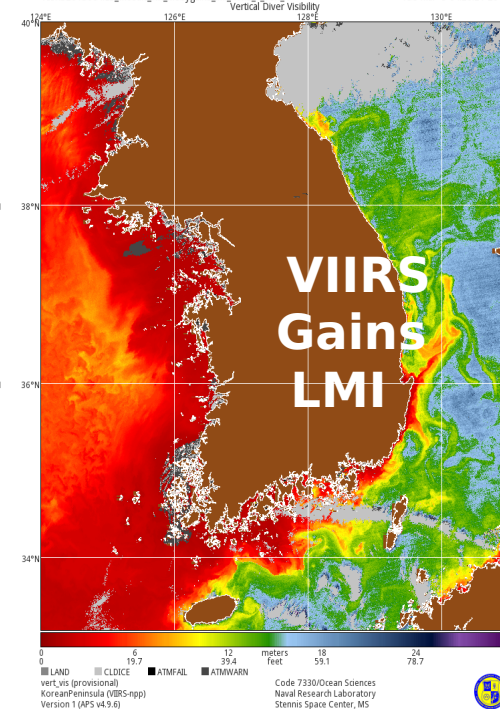
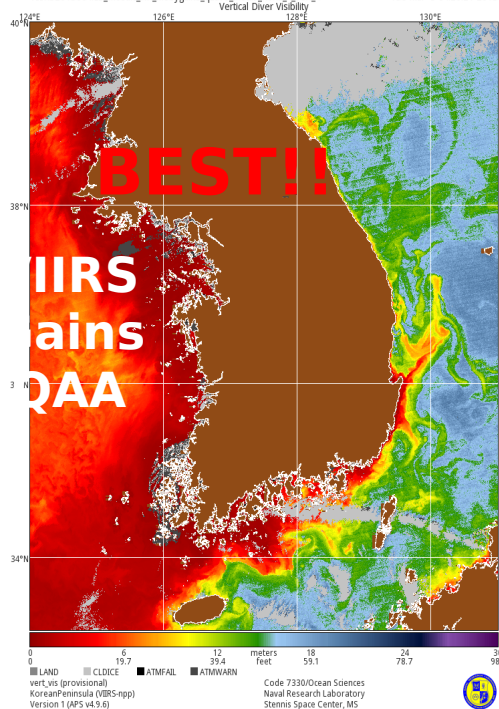


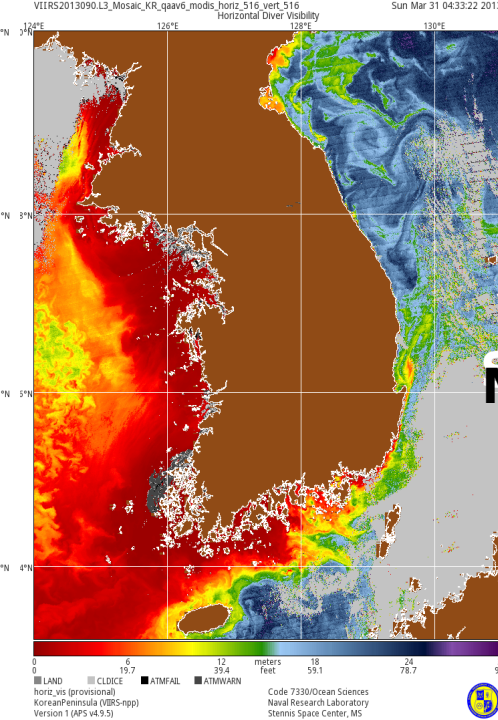
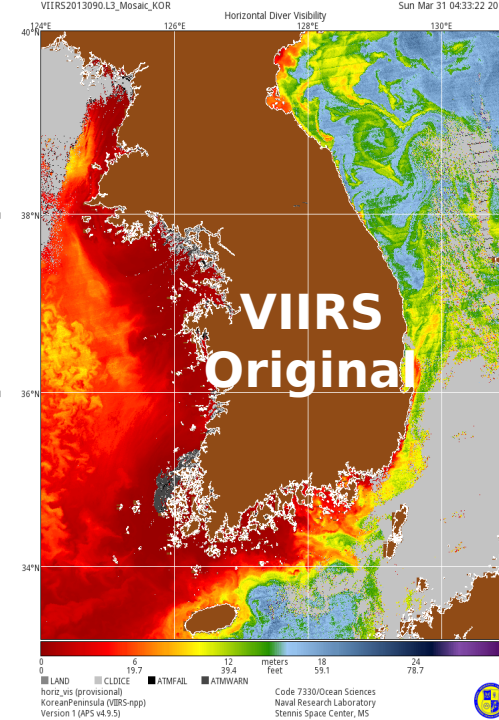
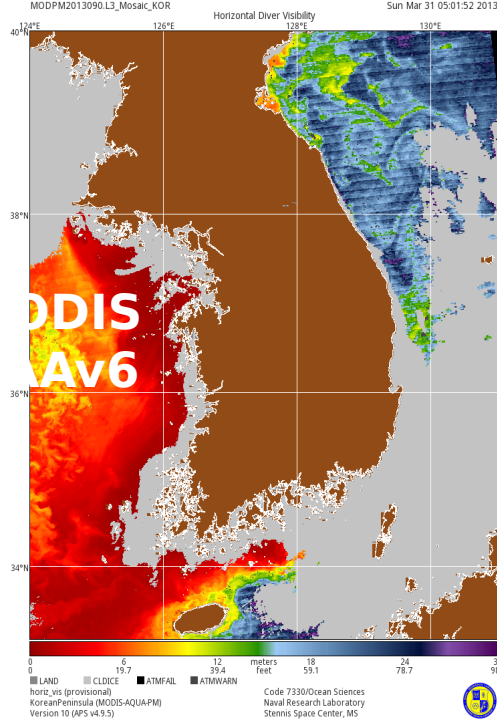
Korean Peninsula

Vertical Visibility

**March 5, 2013
JDAY 064**

**AOPS v4.8
Evaluation**

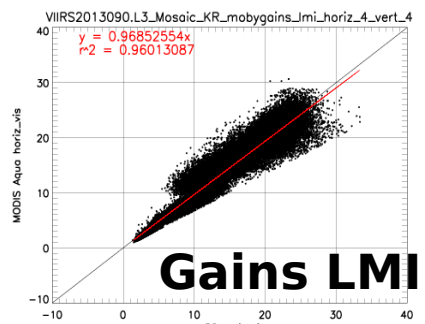
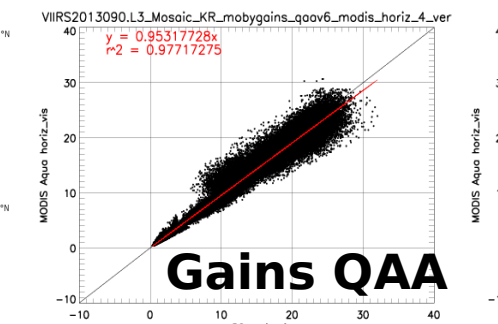
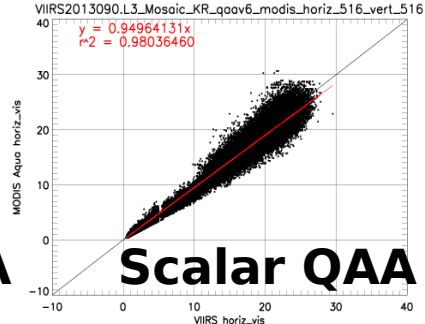
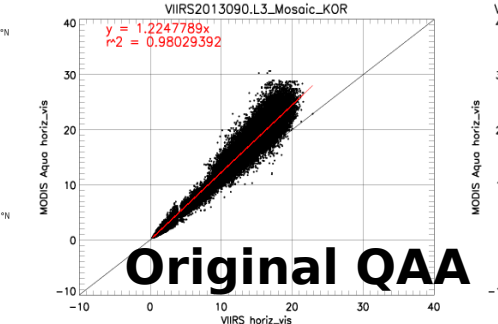
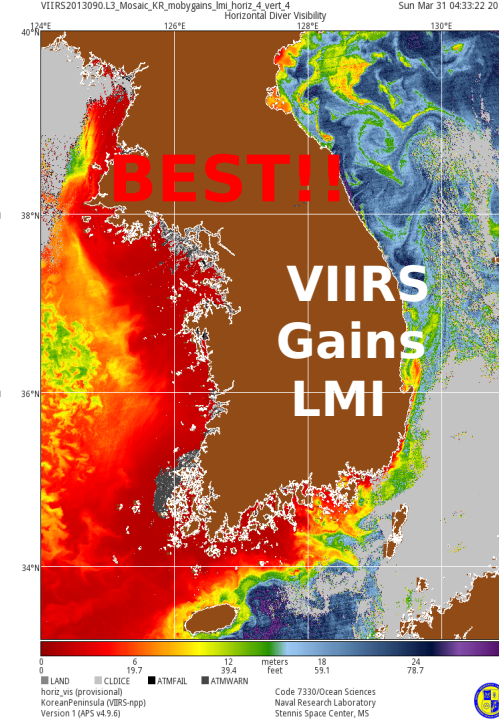
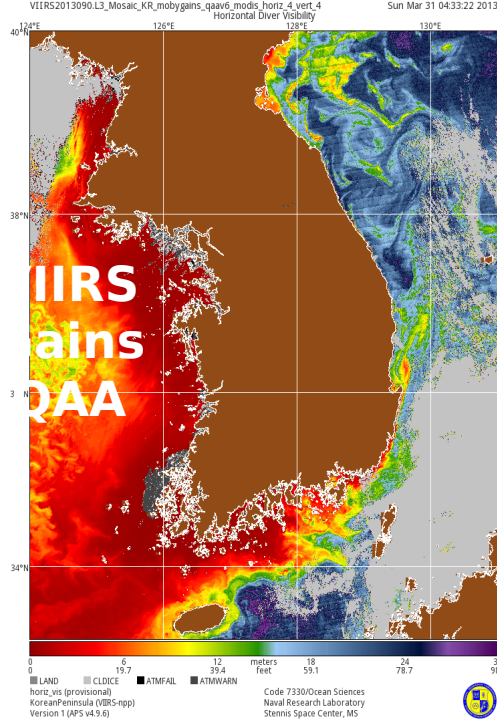


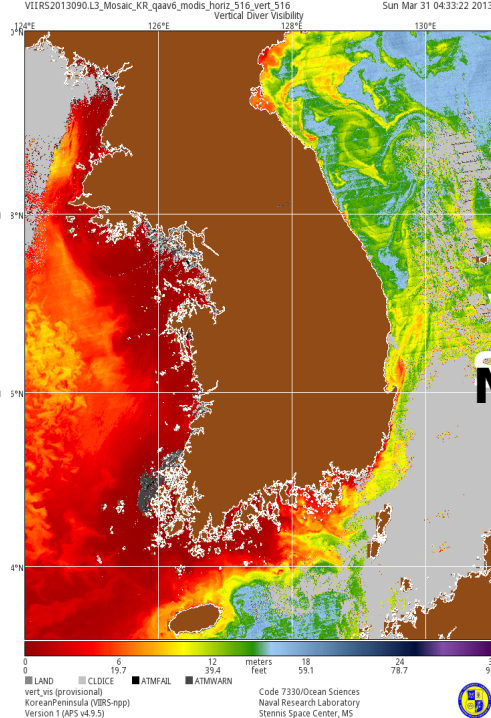
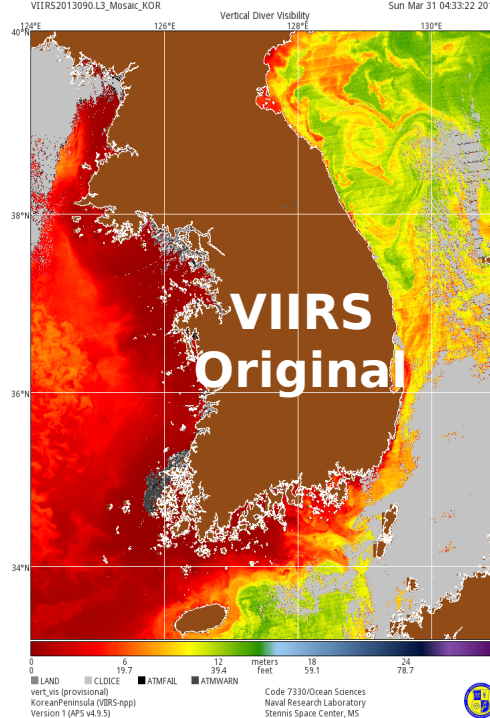
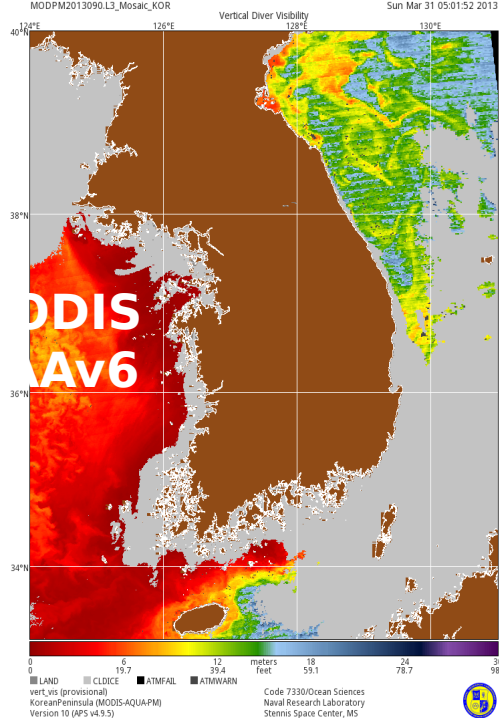


Korean Peninsula Horizontal Visibility

**March 31, 2013
JDAY 090**

**AOPS v4.8
Evaluation**



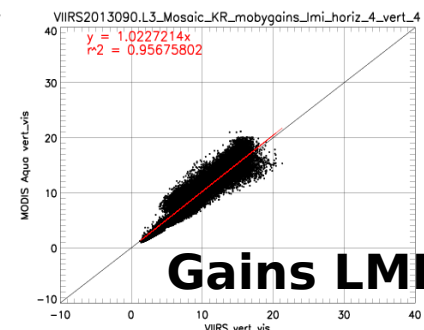
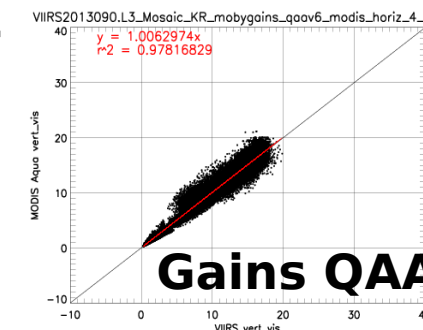
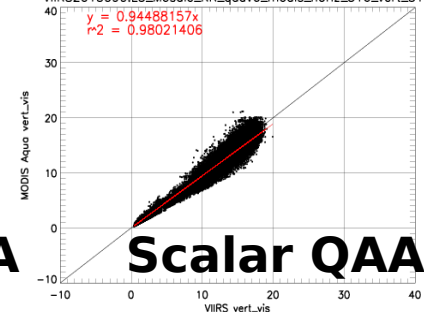
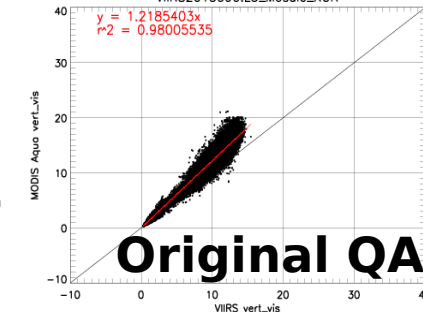
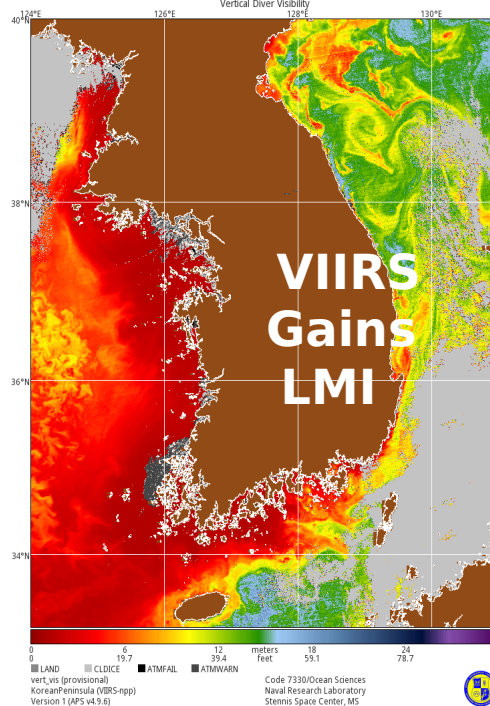
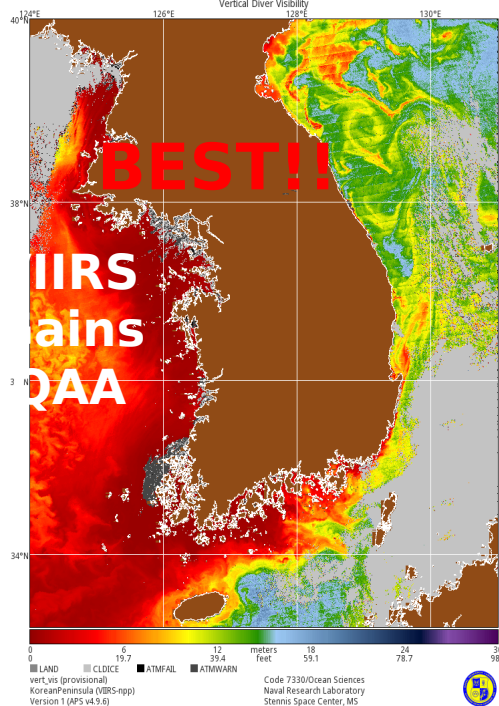


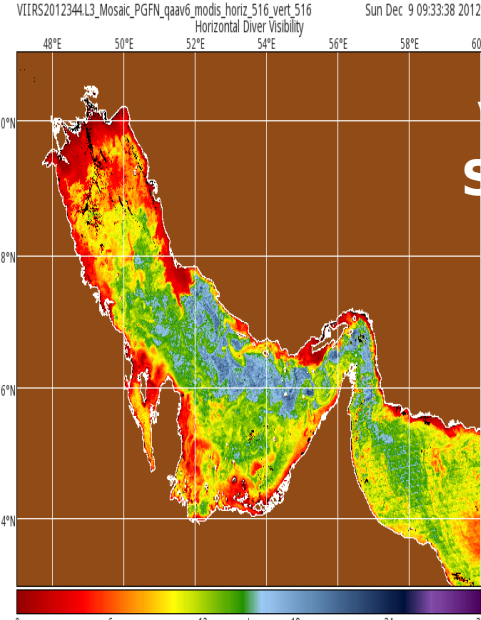
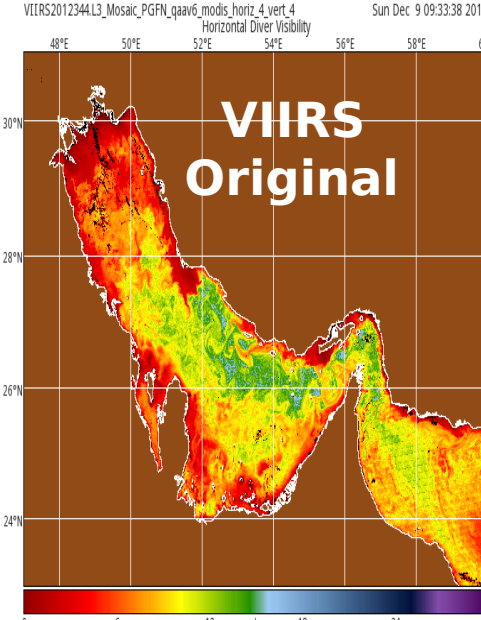
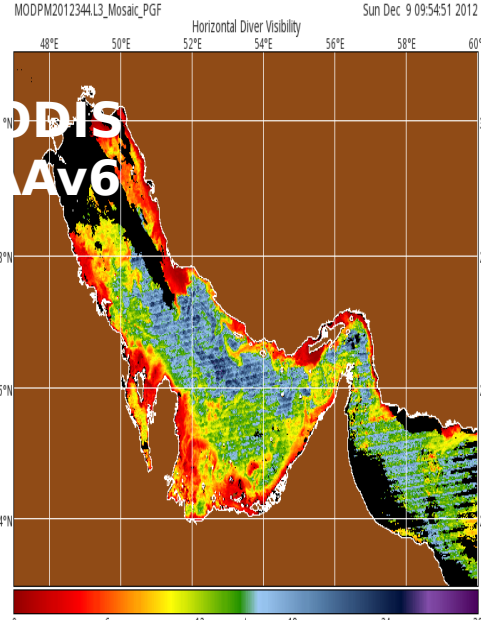
Korean Peninsula

Vertical Visibility

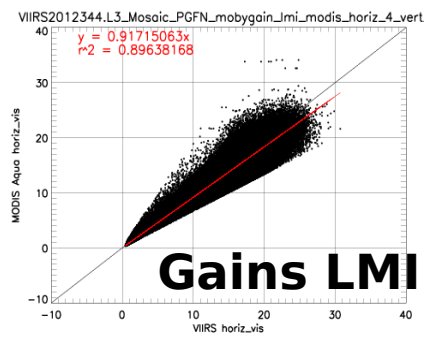
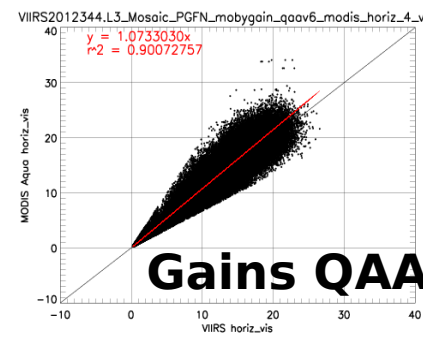
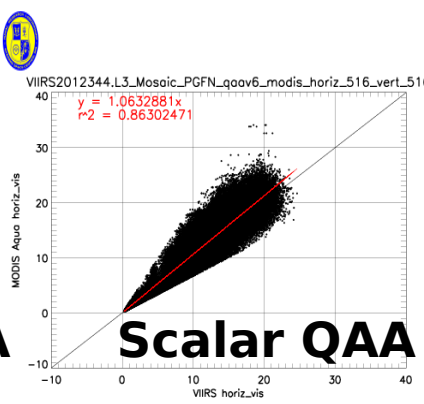
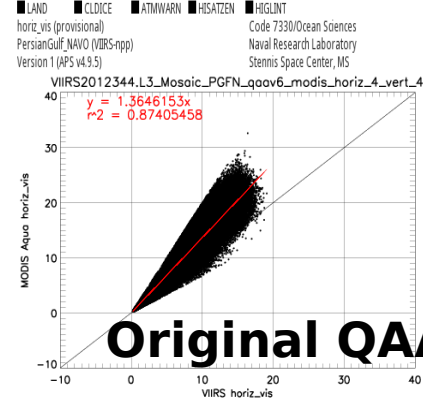
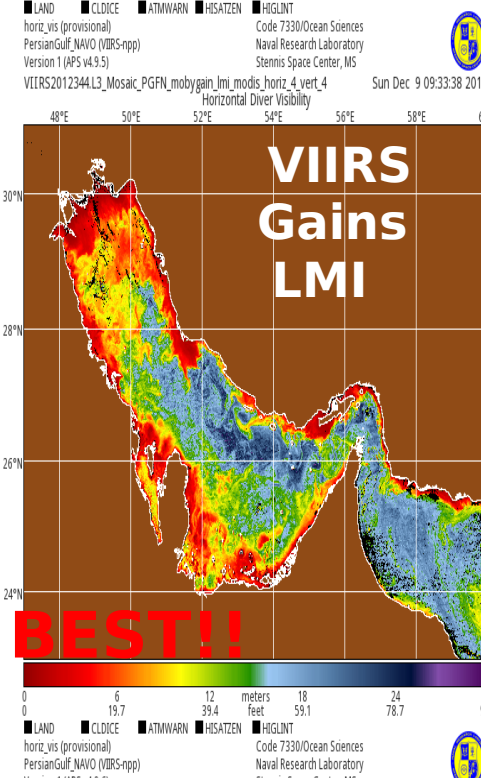
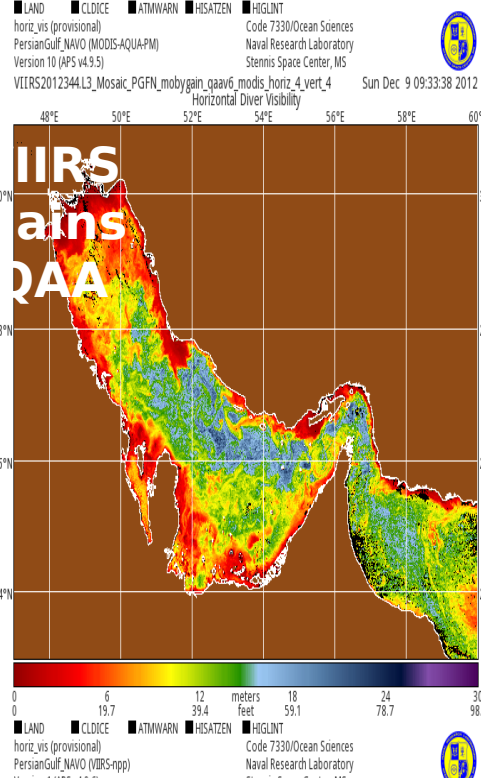
**March 31, 2013
JDAY 090**

**AOPS v4.8
Evaluation**

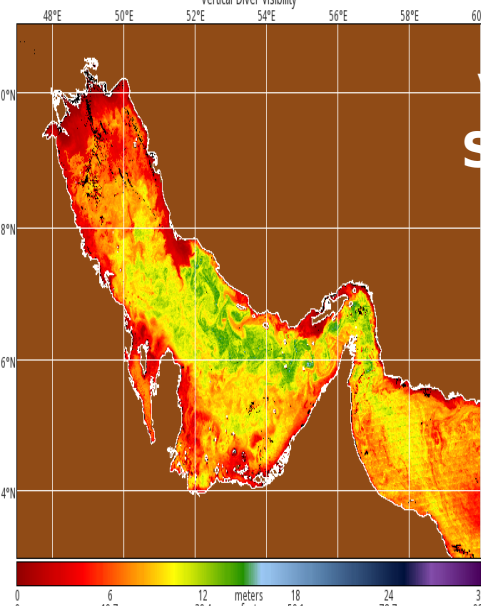
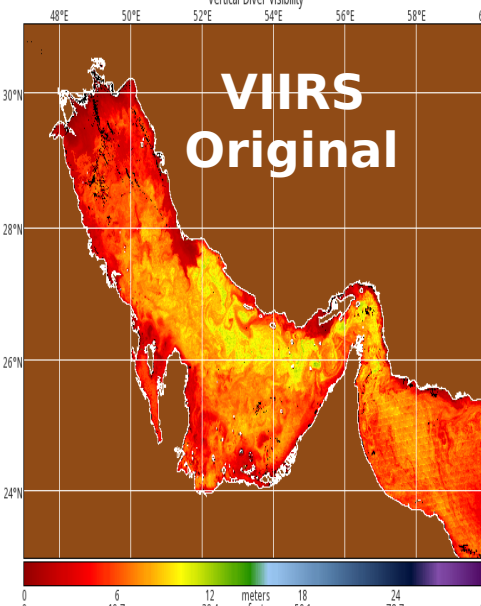
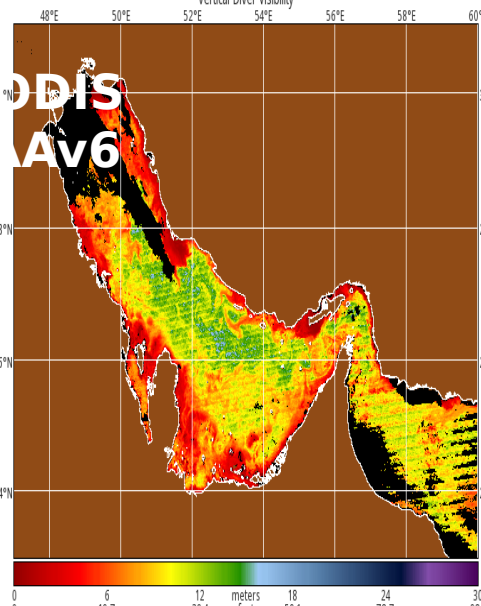




Persian Gulf
Horizontal Visibility
Dec 9, 2012
JDAY 344
AOPS v4.8
Evaluation



BEST!!



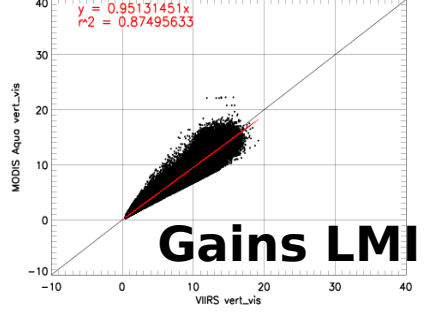
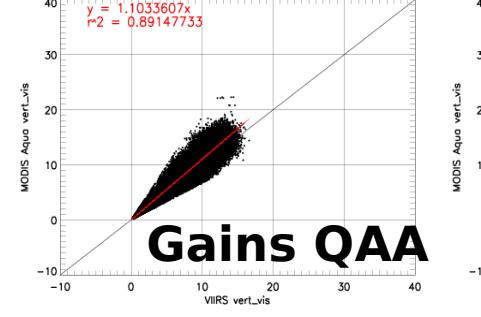
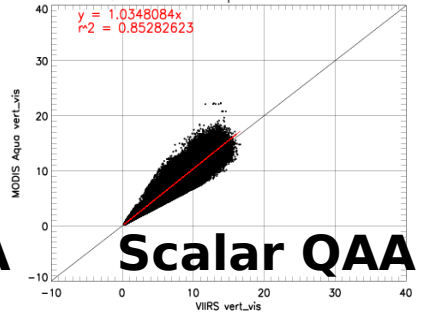
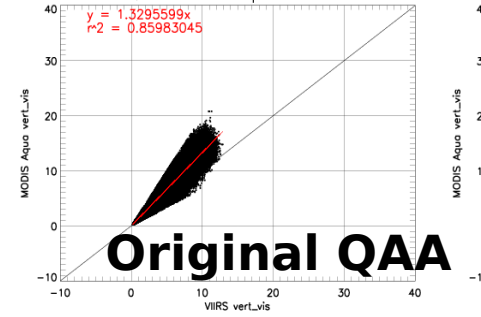
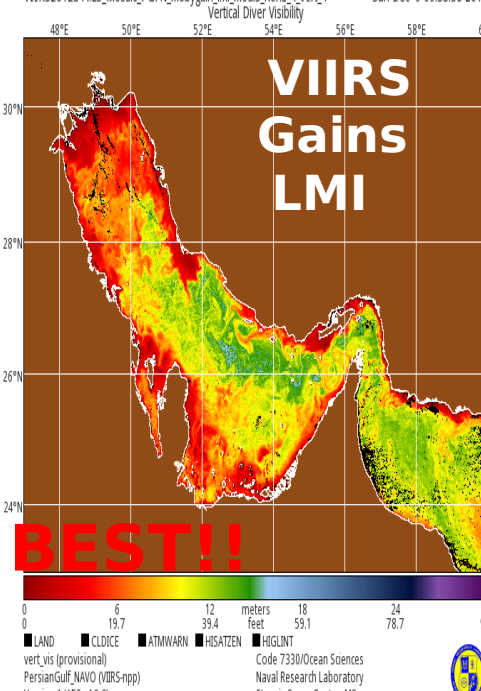
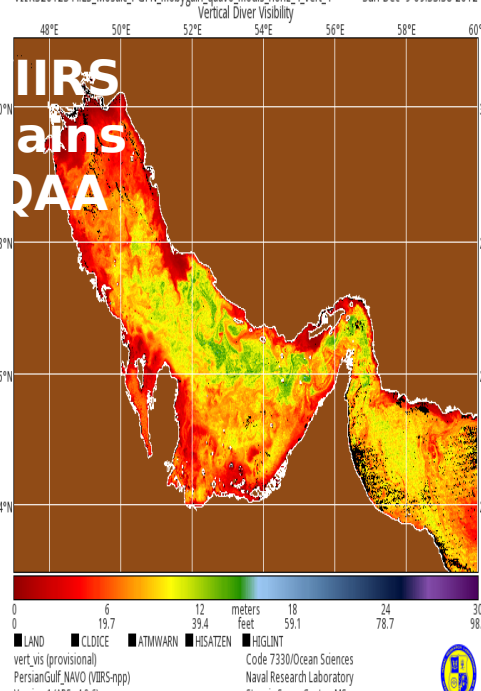
Persian Gulf

Vertical Visibility

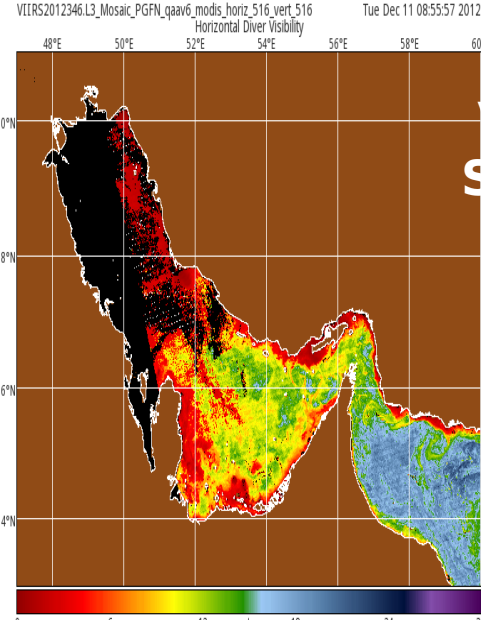
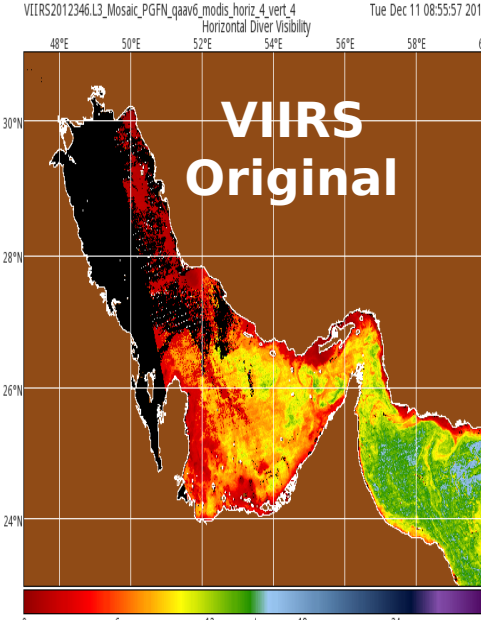
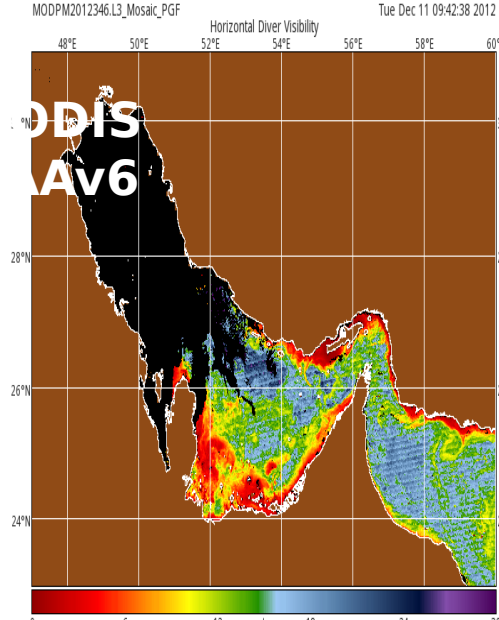
Dec 9, 2012

JDAY 344

AOPS v4.8 Evaluation



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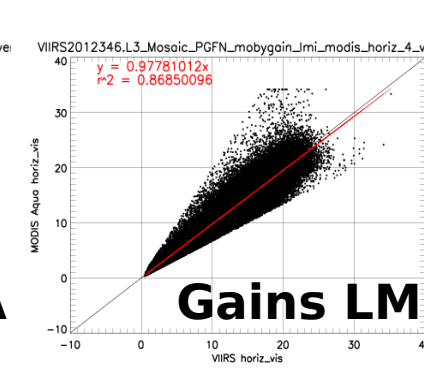
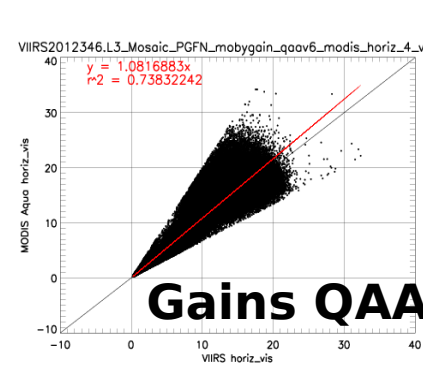
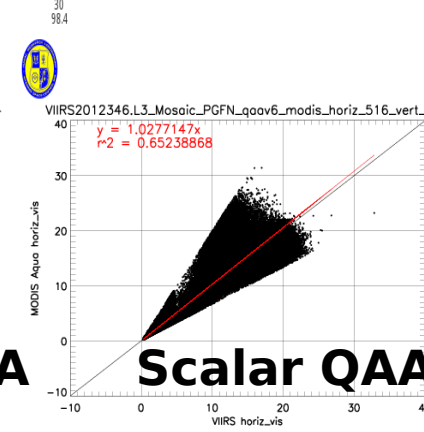
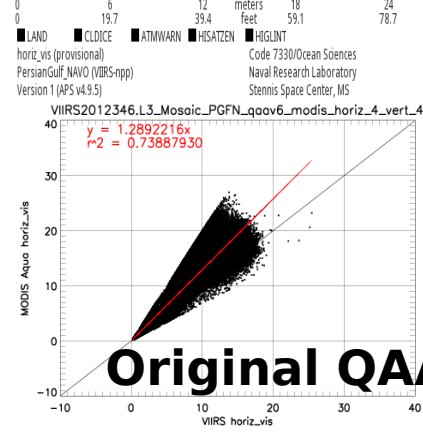
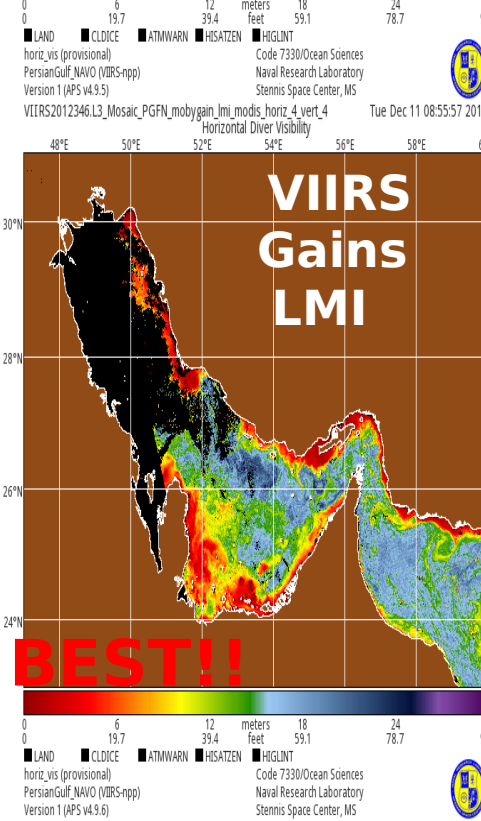
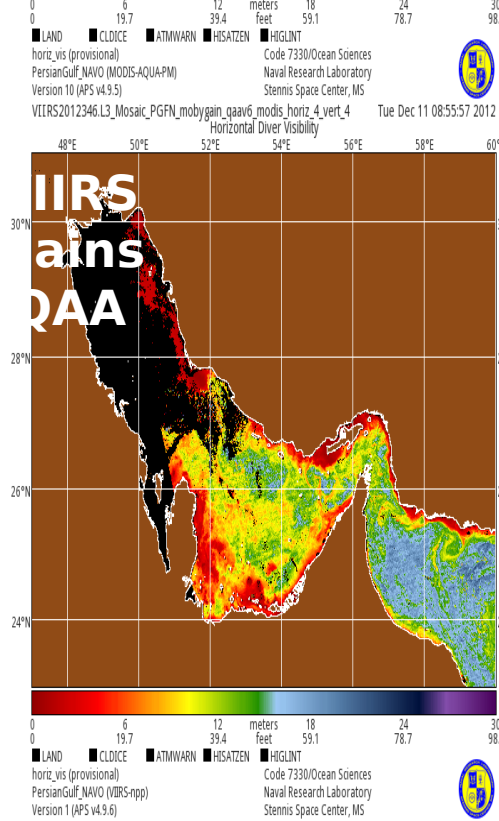


**Persian
Gulf**

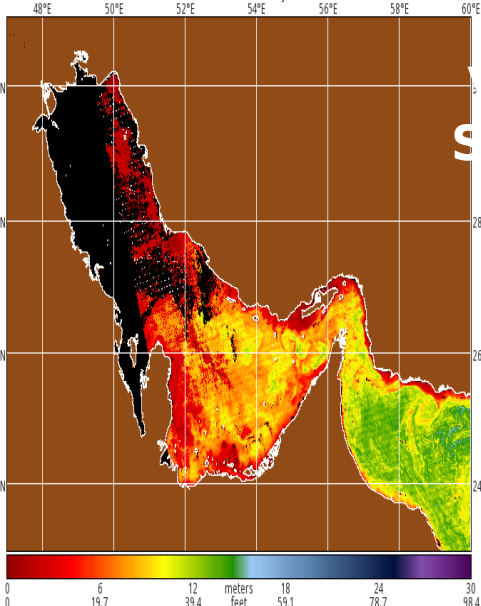
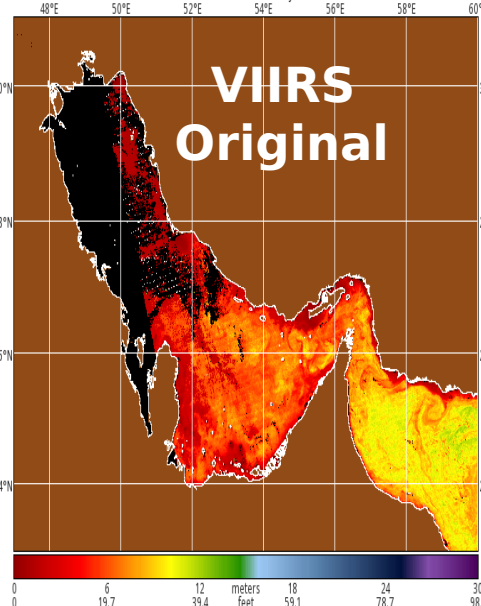
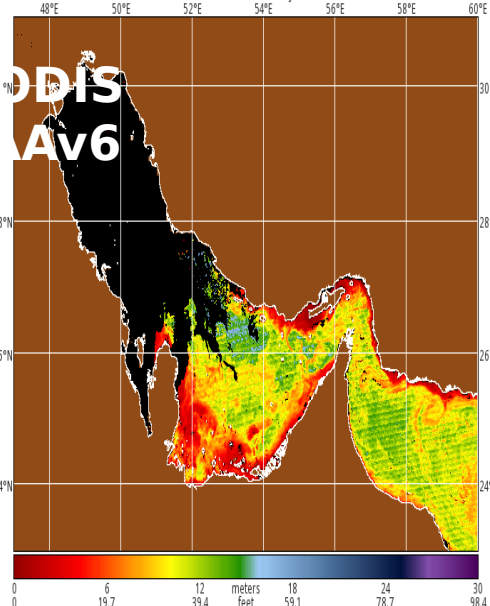
**Horizontal
Visibility**

**Dec 11, 2012
JDAY 346**

**AOPS v4.8
Evaluation**



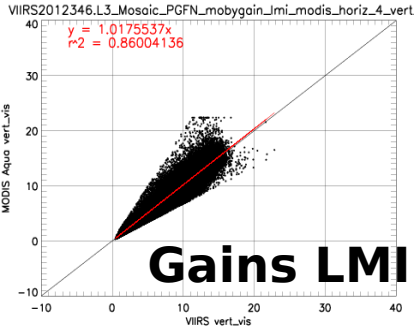
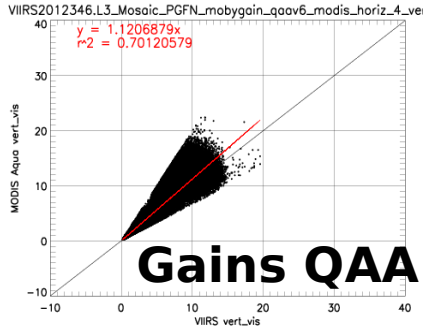
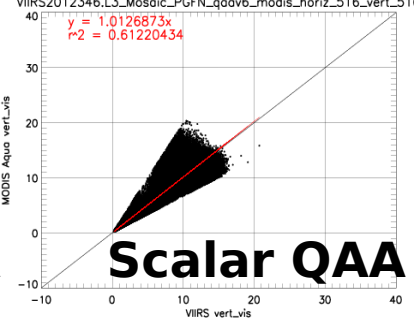
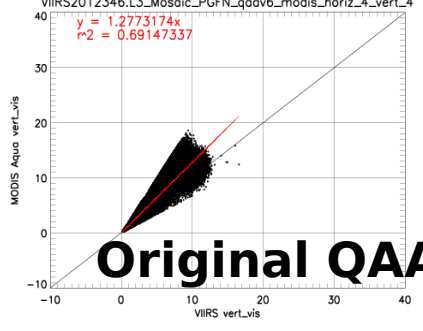
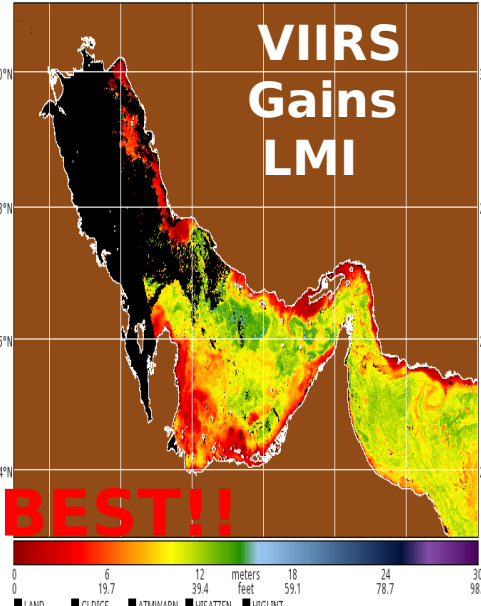
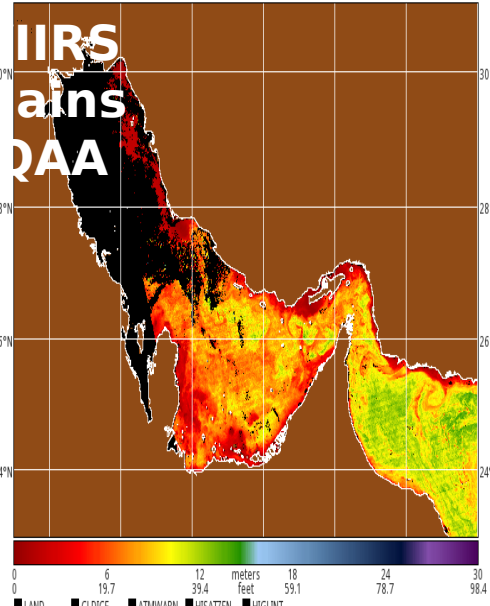
Persian Gulf
Vertical Visibility
Dec 11, 2012
JDAY 346
AOPS v4.8
Evaluation



Code 7330/Ocean Sciences
Naval Research Laboratory
Stennis Space Center, MS

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Naval Research Laboratory
Stennis Space Center, MS

Code 7330/Ocean Sciences
Naval Research Laboratory
Stennis Space Center, MS



BEST!!

aps/data/viirsn/msl12_defaults.par

```
# calibration
# -----
calfile=
gain=0.9797,0.9854,0.9852,0.9797,0.9862,0.9862,
1.0,1.0,1.0,1.0,1.0]
offset=[0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0]

# to set horizontal/vertical visibility scale/offset
hvis_wave=551
#default 4.00
hvis_scale=5.16
hvis_offset=0.0

# process control
# -----
atmocor=1
proc_ocean=1
proc_land=1
proc_sst=0

vvis_wave=551
#default 4.0
vvis_scale=5.16
vvis_offset=0.0

# atmospheric correction and normalization
# -----
aer_opt=-2
aer_wave_short=745
aer_wave_long=862
aer_rrs_short=-1.0
aer_rrs_long=-1.0
aer_swir_short=-1
aer_swir_long=-1
aer_iter_max=10
rhoamin=0.0002
mumm_alpha=1.945
mumm_gamma=1.00
mumm_epsilon=1.00
gas_opt=15
ray_opt=1
pol_opt=3
polfile=$APS_DATA/viirsn/cal/polcor_viirsn
brdf_opt=7
glint_opt=1
outband_opt=2
oxaband_opt=0
filter_opt=1
filter_file=$APS_DATA/viirsn/msl12_filter.dat
```